



























	QUARTZ (SiO2)	ALUMINA (Al2O3)	TiO ₂ (ANATASE)	TiO ₂ (RUTILE)	TUNGSTEN OXIDE (WO3)
ENERGY GAP	7.8eV	7.0eV	3.2eV	3.0eV	2.8eV
ABSORPTION WAVELENGTH OF PHOTOCATALYTIC EFFECT	159nm (VACUUM ULTRAVIOLET)	177nm (VACUUM ULTRAVIOLET)	388nm (ULTRA- VIOLET)	413nm (VISIBLE)	443nm (VISIBLE)
	IRON OXIDE (Fe2O3)	(Fe2O3) (CP23)	Cu2O	ln203	Fe2TiO3
ENERGY GAP	2.2eV	2.07eV	2.2eV	2.5eV	<2.8eV
ABSORPTION WAVELENGTH OF PHOTOCATALYTIC EFFECT	564nm (VISIBLE)	600nm (VISIBLE)	564nm (VISIBLE)	496nm (VISIBLE)	443nm (VISIBLE)
	PbO	V2O5	FeTi03	Bi2O3	Nb2O3
ENERGY GAP	2.8eV	2.8eV	2.8eV	2.8eV	3.0eV
ABSORPTION WAVELENGTH OF PHOTOCATALYTIC EFFECT	443nm (VISIBLE)	443nm (VISIBLE)	443nm (VISIBLE)	443nm (VISIBLE)	413nm (VISIBLE)
	SrTiO3	ZnO	BaTiO3	CaTi03	SnO ₂
ENERGY GAP	3.2eV	<3.3eV	3.3eV	3.4eV	3.6eV
ABSORPTION WAVELENGTH OF PHOTOCATALYTIC EFFECT	388nm (ULTRA- VIOLET)	376nm (ULTRA- VIOLET)	376nm (ULTRA- VIOLET)	365nm (ULTRA- VIOLET)	344nm (ULTRA- VIOLET)

FIG. 18